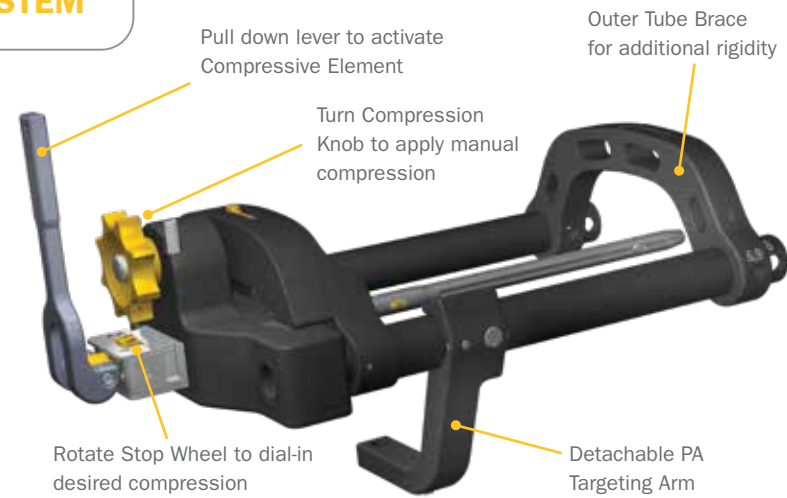


DYNAFRAME™ CF DEPLOYMENT SYSTEM

- Unique two-armed design provides stability and versatility in targeting approach
- Manufactured out of durable carbon-fiber PEEK
- Rigid, robust construction for accurate targeting and screw placement
- Radiolucent to permit radiographic visualization



DYNANAIL IMPLANTS

Part No.	Description
1200-01-1022	DynaNail, 10 mm x 22 cm
1200-01-1222	DynaNail, 12 mm x 22 cm
1200-01-1026	DynaNail XL, 10 mm x 26 cm
1200-01-1226	DynaNail XL, 12 mm x 26 cm
1200-01-1030	DynaNail XL, 10 mm x 30 cm
1200-01-1230	DynaNail XL, 12 mm x 30 cm
1200-02-5020	Headed Cortical Screw, 5.0 mm x 20 mm
1200-02-5025	Headed Cortical Screw, 5.0 mm x 25 mm
1200-02-5030	Headed Cortical Screw, 5.0 mm x 30 mm
1200-02-5035	Headed Cortical Screw, 5.0 mm x 35 mm
1200-02-5040	Headed Cortical Screw, 5.0 mm x 40 mm
1200-02-5045	Headed Cortical Screw, 5.0 mm x 45 mm
1200-02-5050	Headed Cortical Screw, 5.0 mm x 50 mm
1200-02-5055	Headed Cortical Screw, 5.0 mm x 55 mm
1200-02-5060	Headed Cortical Screw, 5.0 mm x 60 mm
1200-03-5065	Headless PA Screw, 5.0 mm x 65 mm
1200-03-5070	Headless PA Screw, 5.0 mm x 70 mm
1200-03-5075	Headless PA Screw, 5.0 mm x 75 mm
1200-03-5080	Headless PA Screw, 5.0 mm x 80 mm
1200-03-5085	Headless PA Screw, 5.0 mm x 85 mm
1200-03-5090	Headless PA Screw, 5.0 mm x 90 mm
1200-03-5095	Headless PA Screw, 5.0 mm x 95 mm
1200-03-5100	Headless PA Screw, 5.0 mm x 100 mm
1200-03-5105	Headless PA Screw, 5.0 mm x 105 mm
1200-03-5110	Headless PA Screw, 5.0 mm x 110 mm
1200-04-0000	Endcap

DYNANAIL SINGLE USE INSTRUMENTS

Part No.	Description
2200-18-4031	Trocar-Tipped Guidewire, 3.1 mm x 400 mm
2200-18-5031	Bead-Tipped Guidewire, 3.1 mm x 500 mm
2200-18-8031	Bead-Tipped Guidewire, 3 mm x 800 mm
2200-30-4031	Threaded Guidewire, 3.1 mm x 400 mm
2200-19-0031	Steinman Pin, 2 mm x 9"
2200-09-0040	4 mm Drill
2200-09-0050	5 mm Stepped Drill
2201-09-0025	2.5 mm x 6" Fenestration Drill
2201-09-0040	4.0 mm x 6" Free-Hand Drill

For further product information or to arrange a product demonstration, please contact your local MedShape representative or call Customer Service at 877-343-7016. You can also visit www.medshape.com.



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1575 Northside Drive, NW
Suite 440
Atlanta, GA 30318
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F: 877-343-7017

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician.

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 Pat: <http://www.medshape.com/patents.html> MK-10084 Rev 05. Issued 12/2017.
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DYNANAIL®
TTC FUSION SYSTEM

PRODUCT INFORMATION



**FEATURING PATENTED
 SUPERELASTIC NITINOL
 TECHNOLOGY**

MAINTAINED COMPRESSION WITHOUT EXTERNAL FIXATION? NAILED IT.

The DynaNail® TTC Fusion System is the **ONLY** fusion approach that offers the compression performance of an external fixator inside an intramedullary nail.

ACHIEVE:

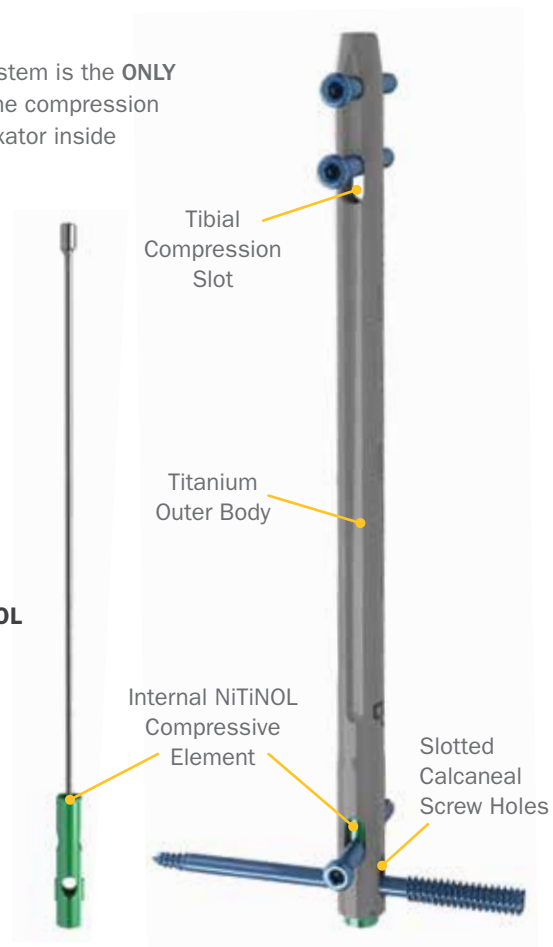
6 mm of post-operative ACTIVE compression

PLUS

6 mm of intra-operative manual compression

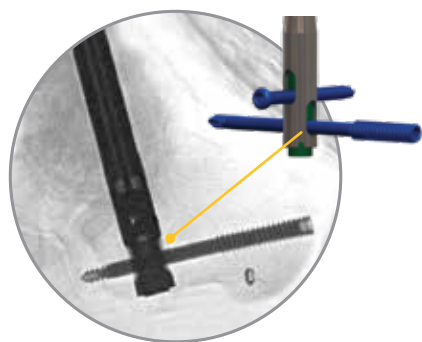
Featuring an innovative internal superelastic NiTiNOL Compressive Element

- Automatically adapts and responds to bone resorption or settling
- Maintains active compression throughout the healing process



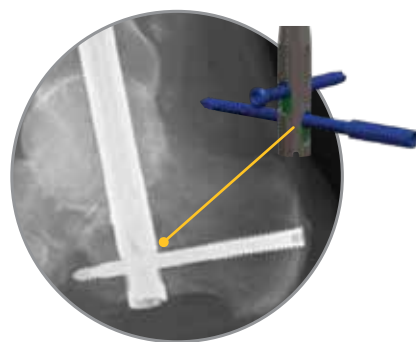
WATCH THE COMPRESSIVE ELEMENT IN ACTION

Immediate Post-Surgery



Compressive Element is fully stretched and PA Screw is located distal in the Nail Body slot indicating 6 mm of post-operative compression available.

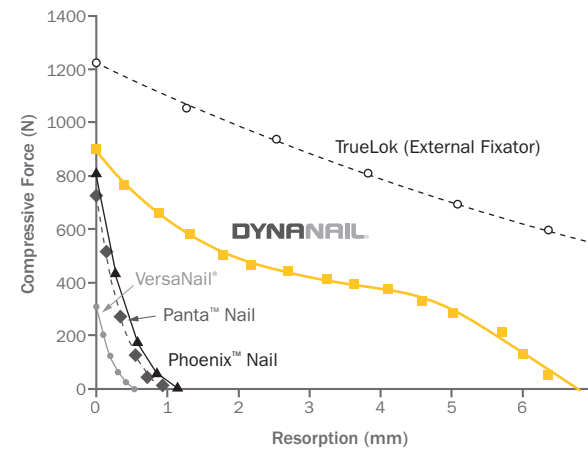
6 Weeks Post-Surgery



Compressive Element has fully recovered, as indicated by the proximal position of the PA screw in the Nail Body slot.³

THE PROOF IS IN THE SCIENCE

Maintained Active Compression

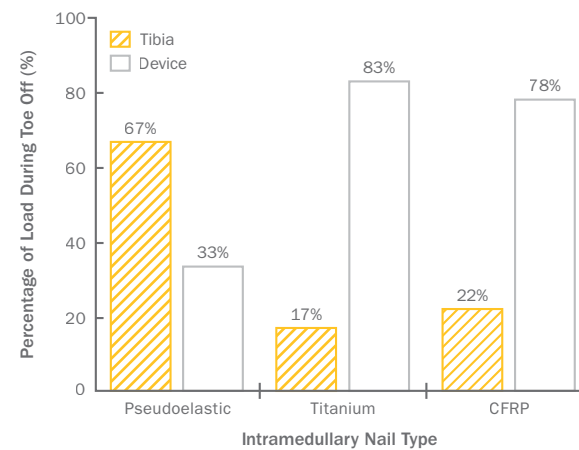


Data represents loss of compression as a function of bone resorption in synthetic bone.

Until now, external fixators were the only devices capable of maintaining compression during bone healing. Existing IM nails only provide intra-operative compression and will lose 90% of their compression when just 1 mm of bone resorption occurs.

The DynaNail maintains up to 6 mm of post-operative compression in response to bone resorption or settling, similar to an external fixator.^{4,5}

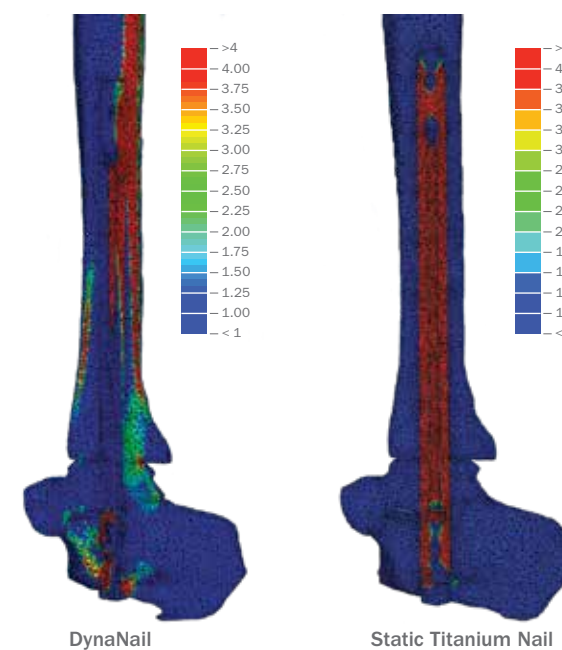
Immediate Dynamization



Static IM nails will stress shield the bone, transferring less than 20% of forces during weight-bearing.

The axial compliance of DynaNail's Compressive Element allows DynaNail to transfer almost 70% of forces across the bone during weight-bearing.⁵

Finite Element Model of Stresses During Weight-Bearing



1- Data on File, MedShape, 2017.

2- Kildow BJ, Gross CE, Adams SB, Parekh SG. Measurement of NiTiNOL Recovery Distance Using Pseudoelastic Intramedullary Nail in Tibiotalocalcaneal Arthrodesis. Foot Ankle Spec 2016; 9(6): 494-499.

3- Hsu AR, Ellington JK, Adams SB, Jr. Tibiotalocalcaneal Arthrodesis Using a NiTiNOL Intramedullary Hindfoot Nail. Foot Ankle Spec 2015; 8(5): 389-96.

4- Yakacki CM, Gall K, Dirschl DR, Pacaccio DJ. Pseudoelastic intramedullary nailing for tibio-talo-calcaneal arthrodesis. Expert Rev Med Devices 2011; 8(2): 159-66.

5- Anderson RT, Pacaccio DJ, Yakacki CM, Carpenter RD. Finite element analysis of a pseudoelastic compression-generating intramedullary ankle arthrodesis nail. J Mech Beh Biomed Mat, 2016; 62: 83-92.



DYNANAIL
TTC FUSION SYSTEM

"The DynaNail is an unrivaled orthopaedic device and my implant of choice for hindfoot arthrodeses. No other hindfoot fusion device allows for intra-operative compression and accounts for post-operative bone resorption by maintaining active compression. It's amazing to 'see' the DynaNail at work!"

— Samuel Adams, MD
Duke University, Durham, NC

As the proven tibiotalocalcaneal fusion system, DynaNail may be indicated as YOUR first choice to treat high-risk patients with complex pathologies:

- Charcot Neuroarthropathy
- Failed Total Ankle Replacements
- Nonunions from Prior Arthrodesis
- Diabetics and Smokers
- Large Bony Defects

Unlike static intramedullary nails with reported nonunion rates as high as 50%, the DynaNail has proven clinical success.¹

- Kreulen C, Lian E, Giza E. Technique for Use of Trabecular Metal Spacers in Tibiotalocalcaneal Arthrodesis with Large Bony Defects. Foot Ankle Int, 2017; 38(1): 96-106.
- Latt LD, Dupont KM, Smith KE. Revision Tibiotalocalcaneal Arthrodesis with a Pseudoelastic Intramedullary Nail - A Case Study. Foot Ankle Spec; 2017; 10(1): 75-81.
- Hsu AR, Ellington JK, Adams SB, Jr. Tibiotalocalcaneal Arthrodesis Using a NiTiNOL Intramedullary Hindfoot Nail. Foot Ankle Spec 2015; 8(5): 389-96.
- Kildow BJ, Gross CE, Adams SB, Parekh SG. Measurement of NiTiNOL Recovery Distance Using Pseudoelastic Intramedullary Nail in Tibiotalocalcaneal Arthrodesis. Foot Ankle Spec 2016; 9(6): 494-499.